

539,466

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 July 2004 (08.07.2004)

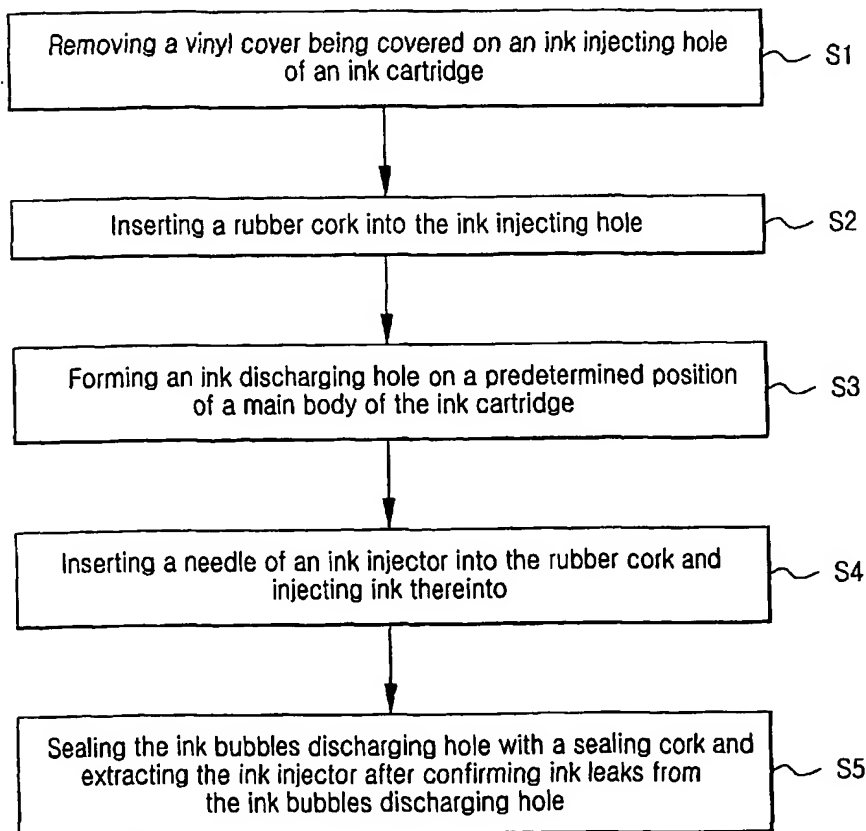
PCT

(10) International Publication Number
WO 2004/056575 A1

- (51) International Patent Classification⁷: **B41J 2/17**
- (21) International Application Number:
PCT/KR2003/001448
- (22) International Filing Date: 22 July 2003 (22.07.2003)
- (25) Filing Language: Korean
- (26) Publication Language: English
- (30) Priority Data:
10-2002-0081840
20 December 2002 (20.12.2002) KR
- (71) Applicants and
(72) Inventors: LEE, Yong-Soo [KR/KR]; Cheongsong Bldg.,
21-7, Cheongdam-dong, Gangnam-gu, Seoul 135-100
(KR). LEE, So-Yeon [KR/KR]; Cheongsong Bldg., 21-7,
Cheongdam-dong, Gangnam-gu, Seoul 135-100 (KR).
- (74) Agent: NAM, Sang-Sun; 9th Fl., Maekyung Media Center,
30, 1-ga, Pil-dong, Jung-ku, Seoul 100-728 (KR).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,
US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: METHOD OF REFILLING INK IN AN INK CARTRIDGE FOR AN INKJET PRINTER



(57) Abstract: Disclosed is an ink refill device. In the ink refill device, the main body is provided with a receiving space for receiving an ink cartridge therein, and first ink injecting part through which ink passes is provided on one outer side wall thereof. An ink injector is provided with second ink injecting part corresponding to the first ink injecting part so that ink is injected into the ink cartridge. Further, an ink absorber is provided in the main body neighboring the first ink injecting part to be closely contacted to an ink nozzle so that it absorbs ink being leaked from the ink nozzle. Whereby, a user, the surroundings or the ink cartridge can be prevented from being soiled.

WO 2004/056575 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.